

UNITED STATES DEPARTMENT OF COMMERCE

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APPLICATION NO. FILING DATE FIRST NAMED INVENTOR			ATTORNEY DOCKET NO.			
09/525,247	03/15/00	URIU		E	YAMAP0347USB	
_			乛	EXAMINER		
MM92/1106 RENNER OTTO BOISSELLE & SKLAR PLL				NGUYEN,T		
NEIL A DUCHE				ART UNIT		
1621 EUCLID 19TH FLOOR CLEVELAND OH				2832	٦.	
				DATE MAILEL	,. 11/06/01	

Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner of Patents and Trademarks

Office Action Summary

Application No. 09/525,247

Applicant(s)

Uriu et al.

Examiner

Tuyen T. Nguyen

Art Unit 2832

	The MAILING DATE of this communication appears	on the cover sheet with the correspondence address	
A SH	or Reply ORTENED STATUTORY PERIOD FOR REPLY IS SET MAILING DATE OF THIS COMMUNICATION.	T TO EXPIRE3 MONTH(S) FROM	
af	ter SIX (6) MONTHS from the mailing date of this communic	CFR 1.136 (a). In no event, however, may a reply be timely filed cation. s, a reply within the statutory minimum of thirty (30) days will	
- If NO	considered timely. period for reply is specified above, the maximum statutory mmunication.	period will apply and will expire SIX (6) MONTHS from the mailing date of the	nis
- Failur - Any ı	e to reply within the set or extended period for reply will, by	y statute, cause the application to become ABANDONED (35 U.S.C. § 133). e mailing date of this communication, even if timely filed, may reduce any	
Status			
1) 💢	Responsive to communication(s) filed on Aug 24, 2	2001	
2a) 💢	This action is FINAL . 2b) ☐ This act	ction is non-final.	
3) 🗆	Since this application is in condition for allowance closed in accordance with the practice under Ex pa	except for formal matters, prosecution as to the merits is arte Quayle, 1935 C.D. 11; 453 O.G. 213.	
Disposi	tion of Claims		
4) 💢	Claim(s) <u>8-15 and 21-38</u>	is/are pending in the application.	
4	la) Of the above, claim(s) 34-38	is/are withdrawn from consideration.	
5) 🗆	Claim(s)	is/are allowed.	
6) 💢	Claim(s) <u>8-15 and 21-33</u>	is/are rejected.	
7) 🗆	Claim(s)	is/are objected to.	
8) 🗆	Claims	are subject to restriction and/or election requirement.	•
Applica	tion Papers		
9) 🗆	The specification is objected to by the Examiner.		
10)	The drawing(s) filed on is/are	e objected to by the Examiner.	
11)□	The proposed drawing correction filed on	is: a)□ approved b)□ disapproved.	
12)	The oath or declaration is objected to by the Exam	niner.	
Priority	under 35 U.S.C. § 119		
13)	Acknowledgement is made of a claim for foreign p	priority under 35 U.S.C. § 119(a)-(d).	
a) [3	\square All b) \square Some* c) \square None of:		
	1. 🖾 Certified copies of the priority documents have	ve been received.	
	2. $\dot{\Box}$ Certified copies of the priority documents hav	ve been received in Application No	
	 Copies of the certified copies of the priority d application from the International Bure se the attached detailed Office action for a list of the 	• • • • • • • • • • • • • • • • • • • •	
14)	Acknowledgement is made of a claim for domestic		
Attachm			
	errius) otice of References Cited (PTO-892)	18) Interview Summary (PTO-413) Paper No(s).	
	otice of Draftsperson's Patent Drawing Review (PTO-948)	19) Notice of Informal Patent Application (PTO-152)	
_	formation Disclosure Statement(s) (PTO-1449) Paper No(s).	20) Other:	

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DETAILED ACTION

Election/Restriction

1. Newly submitted claims 34-38 are directed to an invention that is independent or distinct

from the invention originally claimed for the following reasons: Applicant newly claims an electro-

forming process not previously presented.

Since applicant has received an action on the merits for the originally presented invention,

this invention has been constructively elected by original presentation for prosecution on the merits.

Accordingly, claims 34-38 are withdrawn from consideration as being directed to a non-elected

invention. See 37 CFR 1.142(b) and MPEP § 821.03.

Claim Rejections - 35 USC § 103

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness

rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having

ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in

which the invention was made.

3. Claims 8-15 and 21-33 are rejected under 35 U.S.C. 103(a) as being unpatentable over

Tashiro et al. [US 5,515,022] in view of Hirohashi [JP 6-112047].

Tashiro et al. discloses a multi-layered chip inductor [1] comprising:

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- at least one conductive patterns [31, 32] having a thickness of 10 micro-meter or more and

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a width to thickness ratios from 1 to less than 5 [see column 6, lines 15-25];

- at least one pair of insulating layers [22, 23] formed of magnetic material sandwiching the

conductor patterns; and

- a thick conductor [35] connecting the conductive patterns [31, 32].

Tashiro et al. discloses the instant claimed invention except for inductor component being

formed of a ceramic material.

Hirohashi discloses a ceramic chip inductor.

It would have been obvious to one having ordinary skill in the art at the time the invention

was made to form the inductor component of Tashiro et al. with a ceramic material, as suggested by

Hirohashi, for the purpose of controlling the frequency response.

Tashiro et al. discloses that various printing methods can be used to applied the conductive

patterns.

The particular printing method selected would have been an obvious design consideration

based on the specific materials and thickness to width ratios applied/used.

The specific shapes of the conductive patterns would have been an obvious design

consideration depended upon the specific application of the inductive components.

Response to Arguments

4. Applicant's arguments filed 08/24/01 have been fully considered but they are not persuasive.

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Applicant argues that:

[1] There is no motivation to make the combination of using the ceramic material of

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Hirohashi with Tashiro et al.

[2] The rejection did not address the limitation of "no specific gap."

The examiner disagrees.

Regarding [1], applicant acknowledges [argument page 5] that Tashiro et al. desired to

improve high frequency response. It is well known to use the ceramic material to improve frequency

response and reduce cost. Hirohashi teaches the use of a ceramic material to form an inductor

component. A skilled artisan would have been motivated to select a ceramic material for the layers

of Tashiro et al., as suggested by Hirohashi.

Regarding [2], applicant has not specified what is intended by "no specific gap." Tashiro et

al. teaches a conductive pattern between at least one pair of insulation layer. Tashiro et al. has not

specified or shown any specific gap between the layers. Tashiro et al., nor applicant, has precluded

that a gap may be formed.

Conclusion

5. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy

as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS

from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the

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mailing date of this final action and the advisory action is not mailed until after the end of the

THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the

date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be

calculated from the mailing date of the advisory action. In no event, however, will the statutory

period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner

should be directed to Examiner Tuyen T. Nguyen whose telephone number is (703) 308-0821.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor,

Mr. Michael Gellner, can be reached at (703)308-1721. The fax number for this Group is (703)305-

7724.

Any inquiry of a general nature or relating to the status of this application of proceeding

should be directed to the Group receptionist whose telephone number is (703)308-0956.

TTN 11N

Art Unit 2832

November 4, 2001

TINCOLN DONOVAN
PRIMARY EXAMINER
GROUP 2100

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